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UNITED STATES GOVERNMENT

Memorandum

TO : Director of Communications

OCE M75-049

DATE: 5 FEB 1975

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report - January 1975

25X1A5a1 A. Twenty-eight sets (VCXO and 1W Amplifier) of modules were received in early January. These units are undergoing extensive acceptance testing. No problems were encountered with the VCXO's during these tests but the amplifiers remain marginal in meeting power output and spurious specifications. The contractor had tested the units prior to shipment, and all were within specifications. The problem has been discussed with him and he has been invited to observe the test procedures used. This visit should resolve any questions concerning difference in test techniques between [REDACTED] and the Government.

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B. The Secure Facsimile Terminal (SF-1) passed TEMPEST tests. The SF-1 consists of the SV/A-4 and 3M Model 603BB Portable Facsimile Transceiver and EC-8 RFI enclosure.

25X1A5a1 C. The SV-8 production is proceeding satisfactorily. However, a few difficulties have been encountered with several vendor supplied items; the [REDACTED] data transmitters have a frequency stability problem caused by out-of-spec crystals and the [REDACTED] data receivers have a data output delay problem that is serious enough to prevent proper page operation in the SV-8. At the close of the month, [REDACTED] presented a proposal to modify the receiver to correct the deficiency. The proposed change and its possible cost impact will be evaluated in February. Lastly, the TEMPEST/EMI testing of the SV-8 last year did not clearly determine the EMI profile of the system. Two units were given to OC-CS for further testing; hopefully, without any serious impact on the system design.

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25X1A6a D. Additional impetus to the SV-7 program occurred during the month when [REDACTED] virtually demanded their SV-3 be replaced as soon as possible. The SV-7 went into TEMPEST/EMI testing at mid-month, and we embarked on a parallel effort to fabricate three additional CU-37 Control Units for [REDACTED]. Depending on the outcome of the TEMPEST/EMI and operational testing, and the availability of LS-3's,

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we expect to be able to respond to the [REDACTED] requirement in early March.

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E. The ARS-II installation [REDACTED] began on 26 January. Initial correspondence from site indicates that the hardware installation is complete and that hardware verification tests began 28 January. Negotiations with [REDACTED] for ARS-IV are to commence shortly.

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F. The CDS System Design Specification was received from [REDACTED] on 13 January. Following an in-house review of the four-volume Specification, a formal review will begin in [REDACTED] on 3 February. Initial review of the Specification indicates that it does not comply with the reserve core requirement. [REDACTED] has been advised of this problem via contract channels.

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G. The Secure Voice Trunk Switch contract appears to be proceeding on schedule. Plans for a 200-line expansion of the Gray switch are well underway with final approval to proceed pending. Several actions are underway to provide assistance to the Secure Voice operators in the preparation and handling of messages relating to the scheduling of calls.

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I. The OEL Field Site reported problems with the modified 9602 modem which are similar to those experienced with the unmodified unit, albeit less severe. [REDACTED] design engineers have been contacted and investigations are underway. The SC-1 auto reacquisition modification to the PSK Demodulator will not provide satisfactory unattended operation as required for SKYLINK SATCAL and Red Mux. Other solutions are being studied. All of the specifications for Red Mux System components are under preparation.

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J. The TAR-224 transceiver re-evaluation program was completed this month. A total of 392 units were tested with 135 each being accepted. Steps are being taken to obtain a repair source for those units that failed to meet the reduced specifications.

K. A cable was written to include crystal ordering via the TECHREQ system for worldwide distribution. This will reduce the response time to crystal orders by two days.

L. In an effort to improve the procurement/delivery of requisitioned materiel, direct follow-up queries with the Office of Logistics Procurement Division have been initiated.



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